Titles of most frequently occurring classifications of patents returned
from a search of 10573310 on Sep 10 , 2009

12   704/500   (6 OR, 6 XR)
            Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/500   . AUDIO SIGNAL BANDWIDTH COMPRESSION OR EXPANSION

 7   356/511   (6 OR, 1 XR)
            Class 356   OPTICS: MEASURING AND TESTING
            356/450   . BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
            356/496   .. For dimensional measurement
            356/511   ... Contour or profile

 7   356/497   (2 OR, 5 XR)
            Class 356   OPTICS: MEASURING AND TESTING
            356/450   . BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
            356/496   .. For dimensional measurement
            356/497   ... Having short coherence length source

 7   704/219   (2 OR, 5 XR)
            Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200   . SPEECH SIGNAL PROCESSING
            704/201   .. For storage or transmission
            704/219   ... Linear prediction

 6   704/E19.005   (0 OR, 6 XR)
            Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/E19.001   . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
            704/E19.005   .. Multichannel audio signal coding and decoding,
i.e., using interchannel correlation to reduce redundancies, e.g.,
joint-stereo, intensity-coding, matrixing, etc. (EPO)

 6   704/207   (3 OR, 3 XR)
            Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200   . SPEECH SIGNAL PROCESSING
            704/201   .. For storage or transmission
            704/205   ... Frequency
            704/206   .... Specialized information
            704/207   ..... Pitch

 5   704/205   (0 OR, 5 XR)
            Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION

```
        704/200      . SPEECH SIGNAL PROCESSING
        704/201      .. For storage or transmission
        704/205      ... Frequency

 5  704/E19.02    (0 OR, 5 XR)
        Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
        704/E19.001    . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
        704/E19.01     .. Using spectral analysis, e.g., transform
vocoders, subband vocoders, perceptual audio coders, psychoacoustically
based lossy encoding, etc., e.g., MPEG audio, Dolby AC-3, etc. (EPO)
        704/E19.02     ... Using orthogonal transformation (EPO)

 5  375/E1.002    (0 OR, 5 XR)
        Class 375      PULSE OR DIGITAL COMMUNICATIONS
        375/E1.001     . SPREAD SPECTRUM TECHNIQUES IN GENERAL (EPO)
        375/E1.002     .. Using direct sequence modulation (EPO)

 4  381/23       (3 OR, 1 XR)
        Class 381      ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
        381/1          . BINAURAL AND STEREOPHONIC
        381/19         .. Quadrasonic
        381/20         ... Matrix
        381/21         .... 4-2-4
        381/23         ..... With encoder

 4  375/285      (1 OR, 3 XR)
        Class 375      PULSE OR DIGITAL COMMUNICATIONS
        375/259        . SYSTEMS USING ALTERNATING OR PULSATING CURRENT
        375/285        .. Antinoise or distortion

 4  375/216      (2 OR, 2 XR)
        Class 375      PULSE OR DIGITAL COMMUNICATIONS
        375/216        . APPARATUS CONVERTIBLE TO ANALOG

 4  704/200.1    (2 OR, 2 XR)
        Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
        704/200        . SPEECH SIGNAL PROCESSING
        704/200.1      .. Psychoacoustic

 4  382/248      (1 OR, 3 XR)
        Class 382      IMAGE ANALYSIS
        382/232        . IMAGE COMPRESSION OR CODING
        382/248        .. Transform coding

 4  704/501      (1 OR, 3 XR)
```

```
            Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/500      . AUDIO SIGNAL BANDWIDTH COMPRESSION OR EXPANSION
            704/501      .. With content reduction encoding


  4  704/220     (0 OR, 4 XR)
            Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200      . SPEECH SIGNAL PROCESSING
            704/201      .. For storage or transmission
            704/220      ... Analysis by synthesis


  4  704/230     (0 OR, 4 XR)
            Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200      . SPEECH SIGNAL PROCESSING
            704/201      .. For storage or transmission
            704/230      ... Quantization


  4  375/E1.02     (0 OR, 4 XR)
            Class 375      PULSE OR DIGITAL COMMUNICATIONS
            375/E1.001   . SPREAD SPECTRUM TECHNIQUES IN GENERAL (EPO)
            375/E1.002   .. Using direct sequence modulation (EPO)
            375/E1.02    ... Interference-related aspects (EPO)


  4  704/208     (2 OR, 2 XR)
            Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200      . SPEECH SIGNAL PROCESSING
            704/201      .. For storage or transmission
            704/205      ... Frequency
            704/206      .... Specialized information
            704/207      ..... Pitch
            704/208      ...... Voiced or unvoiced


  4  704/E11.006   (0 OR, 4 XR)
            Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/E11.001  . MISCELLANEOUS ANALYSIS OR DETECTION OF SPEECH
CHARACTERISTICS (EPO)
            704/E11.006  .. Pitch determination of speech signals (EPO)


  3  455/143     (0 OR, 3 XR)
            Class 455      TELECOMMUNICATIONS
            455/130      . RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER
            455/142      .. Convertible to different type (e.g., AM to FM)
            455/143      ... With distinct signal path for each type


  3  375/260     (2 OR, 1 XR)
            Class 375      PULSE OR DIGITAL COMMUNICATIONS
            375/259      . SYSTEMS USING ALTERNATING OR PULSATING CURRENT
```

```
        375/260      ..Plural channels for transmission of a single
pulse train

  3  708/5       (1 OR, 2 XR)
        Class 708      ELECTRICAL COMPUTERS:  ARITHMETIC PROCESSING AND
CALCULATING
        708/1        .ELECTRICAL HYBRID CALCULATING COMPUTER
        708/3        ..Particular function performed
        708/5        ...Correlation, convolution, or transformation

  3  381/66      (2 OR, 1 XR)
        Class 381      ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
        381/66       .DEREVERBERATORS

  3  356/512     (1 OR, 2 XR)
        Class 356      OPTICS:  MEASURING AND TESTING
        356/450      .BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
        356/496      ..For dimensional measurement
        356/511      ...Contour or profile
        356/512      ....By wavefront detection

  3  704/203     (2 OR, 1 XR)
        Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
        704/200      .SPEECH SIGNAL PROCESSING
        704/201      ..For storage or transmission
        704/203      ...Transformation

  3  375/240     (2 OR, 1 XR)
        Class 375      PULSE OR DIGITAL COMMUNICATIONS
        375/240      .BANDWIDTH REDUCTION OR EXPANSION

  3  704/E11.007 (0 OR, 3 XR)
        Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
        704/E11.001  .MISCELLANEOUS ANALYSIS OR DETECTION OF SPEECH
CHARACTERISTICS (EPO)
        704/E11.007  ..Voiced-unvoiced decision (EPO)

  3  704/E19.017 (0 OR, 3 XR)
        Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
        704/E19.001  .SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
        704/E19.01   ..Using spectral analysis, e.g., transform
vocoders, subband vocoders, perceptual audio coders, psychoacoustically
based lossy encoding, etc., e.g., MPEG audio, Dolby AC-3, etc. (EPO)
        704/E19.015  ...Quantization or dequantization of spectral
```

components (EPO)
      704/E19.017   ....Vector quantization, e.g., Twin-VQ audio, etc. (EPO)

  3 704/E19.041   (0 OR, 3 XR)
      Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
      704/E19.001 .SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
      704/E19.023 ..Using predictive techniques; codecs based on
source-filter modelization (EPO)
      704/E19.039 ...Details of speech and audio coders (EPO)
      704/E19.04   ....Vocoder architecture (EPO)
      704/E19.041 .....Vocoders using multiple modes (EPO)

  3 704/E19.002   (0 OR, 3 XR)
      Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
      704/E19.001 .SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
      704/E19.002 ..Perceptual measures for quality assessment (EPO)

  3 348/473   (3 OR, 0 XR)
      Class 348   TELEVISION
      348/469   .FORMAT
      348/473   ..Including additional information

  3 375/E7.001   (0 OR, 3 XR)
      Class 375   PULSE OR DIGITAL COMMUNICATIONS
      375/E7.001 .SYSTEMS FOR THE TRANSMISSION OF TELEVISION
SIGNALS USING PULSE CODE MODULATION (EPO)

  3 704/216   (2 OR, 1 XR)
      Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
      704/200   .SPEECH SIGNAL PROCESSING
      704/201   ..For storage or transmission
      704/211   ...Time
      704/216   ....Correlation function

  3 704/E19.009   (0 OR, 3 XR)
      Class 704   DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
      704/E19.001 .SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR

AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
704/E19.009   ..Audio watermarking, i.e., embedding inaudible data in the audio signal (EPO)

```
2  375/346      (0 OR, 2 XR)
         Class 375      PULSE OR DIGITAL COMMUNICATIONS
         375/316        . RECEIVERS
         375/346        ..Interference or noise reduction

2  375/270      (0 OR, 2 XR)
         Class 375      PULSE OR DIGITAL COMMUNICATIONS
         375/259        . SYSTEMS USING ALTERNATING OR PULSATING CURRENT
         375/268        ..Amplitude modulation
         375/270        ...Vestigial or single sideband or suppressed
carrier

2  455/65       (1 OR, 1 XR)
         Class 455      TELECOMMUNICATIONS
         455/39         . TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
         455/63.1       ..Distortion, noise, or other interference
prevention, reduction, or compensation
         455/65         ...Anti-multipath

2  700/94       (1 OR, 1 XR)
         Class 700      DATA PROCESSING: GENERIC CONTROL SYSTEMS OR
SPECIFIC APPLICATIONS
         700/90         . SPECIFIC APPLICATION, APPARATUS OR PROCESS
         700/94         ..Digital audio data processing system

2  375/259      (2 OR, 0 XR)
         Class 375      PULSE OR DIGITAL COMMUNICATIONS
         375/259        . SYSTEMS USING ALTERNATING OR PULSATING CURRENT

2  725/22       (0 OR, 2 XR)
         Class 725      INTERACTIVE VIDEO DISTRIBUTION SYSTEMS
         725/22         . COMMERCIAL OR PROGRAM AIRING VERIFICATION SYSTEM

2  375/E7.211   (0 OR, 2 XR)
         Class 375      PULSE OR DIGITAL COMMUNICATIONS
         375/E7.001     . SYSTEMS FOR THE TRANSMISSION OF TELEVISION
SIGNALS USING PULSE CODE MODULATION (EPO)
         375/E7.026     ..Using bandwidth reduction; source coding or
decoding of digital video signal, e.g., digital video signal compression;
Pre- or postprocessing thereof (EPO)
         375/E7.211     ...Involving transform and predictive coding,
e.g., hybrid coding, Motion Picture Experts Group (MPEG) coding (EPO)

2  704/211      (0 OR, 2 XR)
         Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
         704/200        . SPEECH SIGNAL PROCESSING
```

```
          704/201      ..For storage or transmission
          704/211      ...Time

  2  379/406.13     (0 OR, 2 XR)
          Class 379      TELEPHONIC COMMUNICATIONS
          379/406.01   .ECHO CANCELLATION OR SUPPRESSION
          379/406.06   ..Using digital signal processing
          379/406.12   ...Frequency domain analysis
          379/406.13   ....Fourier analysis

  2  704/201      (0 OR, 2 XR)
          Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200      .SPEECH SIGNAL PROCESSING
          704/201      ..For storage or transmission

  2  704/204      (0 OR, 2 XR)
          Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200      .SPEECH SIGNAL PROCESSING
          704/201      ..For storage or transmission
          704/203      ...Transformation
          704/204      ....Orthogonal functions

  2  704/258      (1 OR, 1 XR)
          Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200      .SPEECH SIGNAL PROCESSING
          704/258      ..Synthesis

  2  382/250      (0 OR, 2 XR)
          Class 382      IMAGE ANALYSIS
          382/232      .IMAGE COMPRESSION OR CODING
          382/248      ..Transform coding
          382/250      ...Discrete cosine or sine transform

  2  704/229      (0 OR, 2 XR)
          Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/200      .SPEECH SIGNAL PROCESSING
          704/201      ..For storage or transmission
          704/229      ...Adaptive bit allocation

  2  375/344      (1 OR, 1 XR)
          Class 375      PULSE OR DIGITAL COMMUNICATIONS
          375/316      .RECEIVERS
          375/344      ..Automatic frequency control

  2  370/208      (0 OR, 2 XR)
          Class 370      MULTIPLEX COMMUNICATIONS
          370/203      .GENERALIZED ORTHOGONAL OR SPECIAL MATHEMATICAL
TECHNIQUES
```

```
            370/208       ..Particular set of orthogonal functions

  2  381/93       (2 OR, 0 XR)
            Class 381     ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
            381/93        .FEEDBACK SUPPRESSION

  2  381/94.1     (1 OR, 1 XR)
            Class 381     ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
            381/94.1      .NOISE OR DISTORTION SUPPRESSION

  2  381/83       (0 OR, 2 XR)
            Class 381     ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
            381/77        .ONE-WAY AUDIO SIGNAL PROGRAM DISTRIBUTION
            381/82        ..Public address system
            381/83        ...Feedback suppression

  2  704/200      (1 OR, 1 XR)
            Class 704     DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200       .SPEECH SIGNAL PROCESSING

  2  381/1        (0 OR, 2 XR)
            Class 381     ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND
DEVICES
            381/1         .BINAURAL AND STEREOPHONIC

  2  704/214      (1 OR, 1 XR)
            Class 704     DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200       .SPEECH SIGNAL PROCESSING
            704/201       ..For storage or transmission
            704/211       ...Time
            704/214       ....Voiced or unvoiced

  2  704/221      (0 OR, 2 XR)
            Class 704     DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
            704/200       .SPEECH SIGNAL PROCESSING
            704/201       ..For storage or transmission
            704/221       ...Pattern matching vocoders

  2  348/461      (0 OR, 2 XR)
            Class 348     TELEVISION
            348/461       .NONPICTORIAL DATA PACKET IN TELEVISION FORMAT

  2  348/475      (0 OR, 2 XR)
            Class 348     TELEVISION
            348/469       .FORMAT
            348/473       ..Including additional information
```

```
        348/475        ...Additional modulation of picture carrier (e.g.,
quadrature)

  2  380/252      (0 OR, 2 XR)
          Class 380      CRYPTOGRAPHY
          380/252        .ELECTRIC SIGNAL MASKING

  2  704/E19.019   (0 OR, 2 XR)
          Class 704      DATA PROCESSING: SPEECH SIGNAL PROCESSING,
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
          704/E19.001   .SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS
TECHNIQUES FOR REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR
DECODING OF SPEECH OR AUDIO SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR
AUDIO SIGNALS, E.G., SOURCE-FILTER MODELS, PSYCHOACOUSTIC ANALYSIS, ETC.
(EPO)
          704/E19.01    ..Using spectral analysis, e.g., transform
vocoders, subband vocoders, perceptual audio coders, psychoacoustically
based lossy encoding, etc., e.g., MPEG audio, Dolby AC-3, etc. (EPO)
          704/E19.018   ...Using subband decomposition (EPO)
          704/E19.019   ....Subband vocoders (EPO)
```